

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
51813/8:1

APPLICATION NO.

INFORMATION DISCLOSURE CITATION
(Uses several sheets if necessary)APPLICANT
Steven William Doane and William McKee
Doane

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

h	AY	"Rheology of Dispersions of Swollen Gel Particles," by N. W. Taylor and E. B. Bagley, <i>Northern Regional Research Laboratory, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604</i> ; <i>Journal of Polymer Science: Polymer Physics Edition</i> , Vol. 13, 1133-1144 (1975).
	AZ	"Starch-Polyacrylonitrile Copolymers. Properties of Hydrogels," by E. B. Bagley and N. W. Taylor, <i>Northern Regional Research Laboratory, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604</i> ; <i>1&EC Product Research & Development</i> , Vol. 14, Page 105, June 1975.
	BA	"Common Slurper Compound with a Super Thirst," reprinted from <i>Agricultural Research</i> , June 1975; published by the <i>Agricultural Research Service, U. S. Department of Agriculture</i> .
	BB	"A Polymeric Absorbent Seeks Problems to Solve," by George F. Fanta, M. Ollidene Weaver, and William M. Doane, <i>Northern Regional Research Laboratory, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604</i> ; reprinted from <i>Chemical Technology</i> , Vol. 4, November 1974, pp. 675-676.
	BC	"Dispersions or Solutions? A Mechanism for Certain Thickening Agents," by N. W. Taylor and E. B. Bagley, <i>Northern Regional Research Laboratory, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604</i> ; <i>Journal of Applied Polymer Science</i> , Vol. 18, pp. 2747-2761 (1974).
✓	BD	"Gel Sheets Produced by Hydration of Films from the Potassium Salt of Hydrolyzed Starch-Polyacrylonitrile Graft Copolymer," by M. O. Weaver, E. B. Bagley, G. F. Fanta, and W. M. Doane, <i>Northern Regional Research Laboratory, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604</i> ; <i>Applied Polymer Symposium No. 25</i> , 97-102 (1974).

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tt	BN	"Hydrolyzed Starch-Polyacrylonitrile Graft Copolymer Solutions: Effect of Shear History on Transient and Steady-State Viscoelastic Behavior," by E. B. Bailey and N. W. Taylor; Northern Regional Research Laboratory, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; J. Polymer Sci.: Symposium No. 45, 185-196 (1975).
	BO	"Kinetics of Grafting Acrylonitrile onto Starch," by L. A. Gugliemelli, C. L. Swanson, and W. M. Doane, Northern Regional Research Laboratory, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; Journal of Polymer Science: Polymer Chemistry Edition, Vol. 11, 2451-2462 (1973).
	BP	"Continuous Production of Acrylonitrile-Starch Graft Copolymers by Ceric Ion Catalysis," by Zoila Reyes, Carroll F. Clark, Frederick Dreier, and Russell C. Phillips, Stanford Research Institute, Menlo Park, Calif. 94025; and C. R. Russell and C. E. Rist, Northern Regional Research Laboratory, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; reprinted from I&EC Process Design & Development, Vol. 12, Page 62, January 1973.
	BQ	"Polyacrylonitrile Distribution in Grafted Starch Granules Determined by Scanning Electron Microscopy," by George F. Fanta, F. L. Baker, Robert C. Burr, W. M. Doane, and C. R. Russell, Peoria, Illinois (USA); Die Stärke 25, Jahrg. 1973 / Nr. 5, S. 157-161.
	BR	"Starch-Cerium(IV) Complexes in Aqueous Media: Formation, Isolation, and Stability," by L. A. Gugliemelli, W. M. Doane, C. R. Russell, and C. L. Swanson, Northern Regional Research Laboratory, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; Polymer Letters, Vol. 10, pp. 415-421 (1972).
↓	BS	"Hydrolyzed Starch-Polyacrylonitrile Graft Copolymers: Effect of Structure on Properties," by M. O. Weaver, L. A. Gugliemelli, W. M. Doane, and C. R. Russell, Northern Regional Research Laboratory, Northern Marketing and Nutrition Research Division, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; Journal of Applied Polymer Science, Vol. 15, pp. 3015-3024 (1971).

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th	CC	"Molecular Weight Distribution of the Polyacrylonitrile Moiety of Starch-Polyacrylonitrile Graft Copolymers," by L. A. Gugliemelli, M. O. Weaver, C. R. Russell, and C. E. Rist, <i>Northern Regional Research Laboratory, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; Polymer Letters, Vol. 9, pp. 151-155 (1971).</i>
	CD	"Rheological Method of Investigating Reaction between Cerium(IV) and Starch," by L. A. Gugliemelli, M. O. Weaver and C. R. Russell, <i>Northern Regional Research Laboratory, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; Polymer Letters, Vol. 9, pp. 711-716 (1971).</i>
	CE	"Copolymers of Starch and Polyacrylonitrile. Influence of Granule Swelling on Copolymer Composition under Various Reaction Conditions," by George F. Fanta, Robert C. Burr, C. R. Russell, and C. E. Rist, <i>Northern Regional Research Laboratory, a laboratory of the Northern Utilization Research and Development Division, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; J. Macromol. Sci.-Chem., A4(2), pp. 331-339 (1970).</i>
	CF	"Modification of Wheat Starch by Initiating Systems Used for Graft Polymerization," by George F. Fanta, Robert C. Burr, C. R. Russell, and C. E. Rist, <i>Northern Regional Research Laboratory, a laboratory of the Northern Utilization Research and Development Division, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; Reprinted from Cereal Chemistry, Jan., 1970, Vol. 47, No. 1, pp. 85-91.</i>
	CG	"Base-Hydrolyzed Starch-Polyacrylonitrile (S-PAN) Graft Copolymer. S-PAN-1:1, PAN M. W. 794,000," by L. A. Gugliemelli, M. O. Weaver, C. R. Russell, and C. E. Rist, <i>Northern Regional Research Laboratory, Northern Utilization Research and Development Division, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; Journal of Applied Polymer Science, Vol. 13, pp. 2007-2017 (1969).</i>
↓	CH	"Copolymers of Modified Starches with Polyacrylonitrile," by George F. Fanta, Robert C. Burr, C. R. Russell, and C. E. Rist, <i>Northern Regional Research Laboratory, Northern Utilization Research and Development Division, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; Journal of Polymer Science: Part A-1, Vol. 7, pp. 1675-1681 (1969).</i>

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tt	CR	"Copolymers of Starch and Polyacrylonitrile: The Dilution Effect," by George F. Fanta, Robert C. Burr, C. R. Russell, and C. E. Rist, Northern Regional Research Laboratory, Northern Utilization Research and Development Division, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; Journal of Applied Polymer Science, Vol. 13, pp. 133-140 (1969).						
	CS	"Copolymers of Starch and Polyacrylonitrile: The Soluble Fraction," by George F. Fanta, Glen E. Babcock, and Robert C. Burr, Northern Regional Research Laboratory, Northern Utilization Research and Development Division, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; Journal of Polymer Science: Part A-1, Vol. 7, pp. 980-982 (1969).						
	CT	"Copolymers of Wheat Starch and Polyacrylonitrile. Effect of Aqueous - Organic Solvent Systems on Copolymer Composition," by Robert C. Burr, George F. Fanta, C. R. Russell, and C. E. Rist, Northern Regional Research Laboratory, a laboratory of the Northern Utilization Research and Development Division, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; J. Macromol. Sci. - Chem., A2(1), pp. 93-101 (1968).						
	CU	"Graft Copolymers of Starch. III. Copolymerization of Gelatinized Wheat Starch with Acrylonitrile. Influence of Chain Modifiers on Copolymer Composition," by George F. Fanta, Robert C. Burr, C. R. Russell, and C. E. Rist, Northern Regional Research Laboratory, Northern Utilization Research and Development Division, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; Journal of Applied Polymer Science, Vol. 11, pp. 457-463 (1967).						
	CV	"Influence of Swelling and Disruption of the Starch Granule on the Composition of the Starch-Polyacrylonitrile Copolymer," by Robert C. Burr, George F. Fanta, C. R. Russell, and C. E. Rist, Northern Regional Research Laboratory, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; J. Macromol. Sci. - Chem., A1(7), pp. 1381-1385, Nov., 1967.						
↓	CW	"Graft Copolymers of Starch. I. Copolymerization of Gelatinized Wheat Starch with Acrylonitrile. Fractionation of Copolymers and Effect of Solvent on Copolymer Composition," by George F. Fanta, Robert C. Burr, C. R. Russell, and C. E. Rist, Northern Regional Research Laboratory, Northern Utilization Research and Development Division, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604; Journal of Applied Polymer Science, Vol. 10, pp. 929-937 (1966).						

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tt	DG	"Graft Copolymers of Starch. II. Copolymerization of Gelatinized Wheat Starch with Acrylonitrile: Influence of Reaction Conditions on Copolymer Composition," by George F. Fanta, Robert C. Burr, C. R. Russell, and C. E. Rist, <i>Northern Regional Research Laboratory, Agricultural Research Service, U. S. Department of Agriculture, Peoria, Illinois 61604</i> ; <i>Polymer Letters</i> , Vol. 4, pp. 765-769 (1966).						
	DV	D. Trimmell et al., <i>Graft Polymerization of Methyl Acrylate onto Granular Starch: Comparison of the Fe²⁺/H₂O₂ and Ceric Initiating Systems</i> , 60 <i>J. Applied Polymer Sci.</i> 285 (1996).						
	DW	George F. Fanta, <i>Starch Graft Copolymers</i> , in 10 <i>Polymeric Materials Encyclopedia</i> 7901 (Joseph C. Salamone ed., 1996).						
	DX	George F. Fanta et al., <i>Note, Graft Polymerization of Methyl Acrylate-Vinyl Acetate Mixtures onto Starch</i> , 49 <i>J. Applied Polymer Sci.</i> 1679 (1993).						
	DY	George F. Fanta et al., <i>Factors Influencing Absorbent Properties of Saponified Starch-g-Polyacrylonitrile Isolated by Methanol Precipitation</i> , 36 <i>Starch/Stärke</i> 416 (1984).						
	DZ	George F. Fanta et al., <i>Polysaccharide-g-Polystyrene Copolymers by Persulfate Initiation: Preparation and Properties</i> , 28 <i>J. Applied Polymer Sci.</i> 2455 (1983).						
↓	EA	George F. Fanta & William M. Doane, <i>Saponified Starch-g-Polyacrylonitrile and Related Absorbents at 26, fig. 1</i> (Aug. 27, 1981) (unpublished manuscript, on file with Northern Regional Research Center, Agricultural Research Service, U.S. Department of Agriculture, Peoria, Illinois 61604).						

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